

NHDOT SPR2 PROGRAM

RESEARCH PROGRESS REPORT

INSTRUCTIONS:

Project Managers and/or Principal Investigators should complete a progress report at least every three months during the project duration. Reports are due the 5th of the month following the end of the quarter. Please provide a project update even if no work was done during this reporting period.

Project # 26962R		Report Period Year <input type="checkbox"/> Q1 (Jan-Mar) <input type="checkbox"/> Q2 (Apr-Jun) <input type="checkbox"/> Q3 (Jul-Sep) <input checked="" type="checkbox"/> Q4 (Oct-Dec)
Project Title: Active Transportation Accounting: A three-pronged approach to developing metrics for project prioritization, monitoring, safety assessment, and evaluation		
Project Investigator: Amy Villamagna Phone: 603-535-2217		E-mail: amvillamagna@plymouth.edu
Project Start Date: Dec 1, 2016	Project End Date: March 31, 2018	Project schedule status: <input type="checkbox"/> On schedule <input type="checkbox"/> Ahead of schedule <input checked="" type="checkbox"/> Behind schedule

Brief Project Description:

This project will leverage *a)* existing datasets (participatory mapping of facility activity through the Strava App), *b)* statewide on-the-ground bike-ped monitoring initiatives (conducted in partnership with the 9 regional planning commissions in NH) (Tufts et al. 2015), *c)* efforts to develop and apply a Level of Traffic Stress (LTS) model for bicycling (MTI Report II-19), and incorporate novel public participatory GIS approaches to assess patterns of current bicycle activity and identify potential barriers to access and participation.

Progress this Quarter (include meetings, installations, equipment purchases, significant progress, etc.):

Conducted Public Participatory GIS (PPGIS) surveys and began synthesizing results. Solicited key destinations from Lakes Region planners and associates (via Lakes Region Planning Commission). Key destination and origin points mapped by respondents were processed for inclusion in upcoming connectivity assessment. Methodology for connectivity assessment developed for focal regions. Future manual count locations within focal regions have been identified and will be shared during TAG meeting. Primary data collection for the Level of Traffic Stress model has been collected for the Lakes Region.

Items needed from NHDOT (i.e., Concurrence, Sub-contract, Assignments, Samples, Testing, etc...):

A TAG meeting to be held in January 2017.

Anticipated research next 3 months:

Primary data collection for Level of Traffic Stress model for Manchester, NH. Compare Strava to manual counts from May 2014/2015 and Sept 2014/2015. Compare PPGIS survey results of biking barriers (maps) to Strava patterns. Apply LTS model to Lakes Region. Initiate connectivity assessment using LTS model in the Lakes Region.

Circumstances affecting project: Describe any challenges encountered or anticipated that might affect the completion of the project within the time, scope, and budget, along with recommended solutions to those problems.

There was more than a 3-month delay in receiving funding for this project. We suspect this may result in the need for a two (2) month extension to the project funding cycle; however, this need will be reassessed based on progress over the next three (3) quarters.

**NHDOT SPR2 PROGRAM
RESEARCH PROGRESS REPORT**

Tasks (from Work Plan)	Planned % Complete	Actual % Complete
Conduct PPGIS/Surveys and synthesize results	100%	60%
Identify future manual count locations (for 9/16 and 5/17)	100%	80%
Apply Level of Traffic Stress to focal regions	40%	25%